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(WO/2005/054471) NOVEL CENTROMERIC PROTEIN SHUGOSHIN

Biblio. Data

Description

Claims

National Phase

Notices

Documents

Latest bibliographic data on file with the International Bureau

Publication Number: WO/2005/054471

International Application No.: PCT/JP2004/017428

Publication Date: 16.06.2005

International Filing Date: 24.11.2004

Int. Class.: C07K 14/39 (2006.01), C07K 14/47 (2006.01)

Applicants: JAPAN SCIENCE AND TECHNOLOGY AGENCY [JP/JP]; 1-8, Honcho 4-chome, Kawaguchi-shi, Saitama, 3320012 (JP) (All Except US).
WATANABE, Yoshinori [JP/JP]; 1-18-1-308, Shinkashiwa, Kashiwa-shi Chiba, 2770084 (JP) (US Only).

Inventor: WATANABE, Yoshinori [JP/JP]; 1-18-1-308, Shinkashiwa, Kashiwa-shi Chiba, 2770084 (JP).

Agent: HIROTA, Masanori; 3F Wakabayashi Bldg., 8-5, Akasaka 2-chome, Minato-ku Tokyo, 1070052 (JP).

Priority Data: 2003-401943 01.12.2003 JP
2004-279450 27.09.2004 JP

Title: NOVEL CENTROMERIC PROTEIN SHUGOSHIN

Abstract: It is intended to provide a novel meiosis-specific centromeric protein Sgo1 (shugoshin) originating in a fission yeast *Schizosaccharomyces pombe* as a factor ensuring the retention of unidirection and adhesion in sister centromeres in the first meiotic division synergistically with cohesin, its homolog or paralog having an activity of regulating chromosomal distribution, and DNA encoding the same. To clarify a protein protecting Rec8 in the latter stage of division, screening is made of a gene which regulates mitotic division development and inhibits the separation of sister chromatids in the latter stage of division, when expressed together with Rec8, from among fission yeast genes. As the result of this approach, a meiosis-specific protein Sgo1 which protects (*shugo*) centromeric Rec8 from degradation in the latter stage of first division is found out. Moreover, an Sgo1 homolog of a budding yeast and a mitotic division paralog Sgo2 of a fission yeast are found out.

Designated States: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
African Regional Intellectual Property Org. (ARIPO) (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW)
Eurasian Patent Organization (EAPO) (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM)
European Patent Office (EPO) (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR)
African Intellectual Property Organization (OAPI) (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Publication Language: Japanese (JA)

Filing Language: Japanese (JA)

